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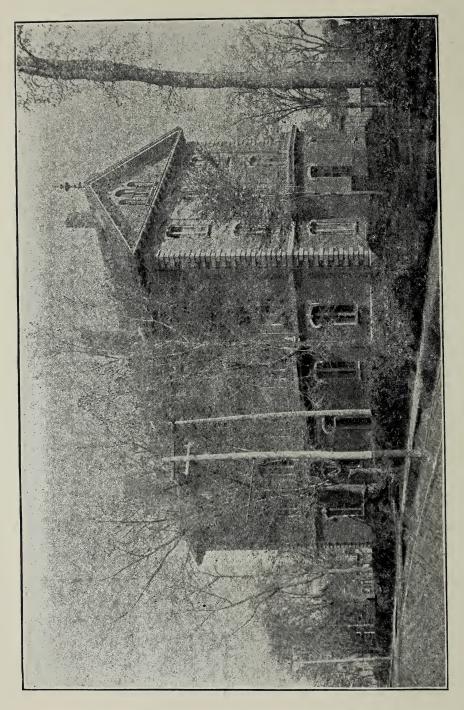
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JULY,

1911







CATALOGUE

OF THE

MEDICAL SCHOOL OF MAINE

THE MEDICAL DEPARTMENT

OF

BOWDOIN COLLEGE

FOR THE NINETY-SECOND YEAR

1911



1912

BRUNSWICK, - MAINE

PRINTED FOR THE COLLEGE, MDCCCCXI

PRESS OF THE BRUNSWICK RECORD BRUNSWICK, MAINE

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- ERNEST BOYEN YOUNG, A.B., M.D., from the Board of Over-seers.

GRADUATES OF 1911.

Albert Kilburn Baldwin, A.B	Brunswick
James Donald Clement	Belfast
Frank Stephen Dolley, A.B	Brunswick
EVERETT CLIFTON HIGGINS, A.B	Clinton
Elmer Herbert Jackson	Jefferson
CHARLES JEWELL NASON	
CARL HERVEY STEVENS	Northport
Cornelius John Taylor	Bangor
Malford Wilcox Thewlis	Providence, R. I.
Francis Howe Webster, B.S	Castine
CHARLES GREEN WHARTON, B.S	Tulare, Cal.
CHARLES MOORE WILSON	Waterford
GUSTAF FRITZ ROBERT WOLLIN	Ystad, Sweden

Students in 1910-11.

FOURTH YEAR.

Name Residence	
Baldwin, Albert Kilburn, A.BBrunsw	ick
Clement, James Donald Bel	fast
Dolley, Frank Stephen, A.BBrunsw	ick
Higgins, Everett Clifton, A.B	
Jackson, Elmer HerbertJeffer	
Long, Paul RaymondParsonsfi	
Nason, Charles Jewell	den
Stanwood, Harold Williams, A.B Rumf	
Stevens, Carl HerveyNorth	
Taylor, Cornelius JohnBan	
Thewlis, Malford Wilcox Providence, R	
Webster, Francis Howe, B.S	
Wharton, Charles Green, B.STulare, G.	
Wilson, Charles MooreWater	
Wollin, Gustaf Fritz Robert	

THIRD YEAR.

Name	Residence
Bennett, Roland Joseph	. Dover, N. H.
Brown, Freeman Fletcher	
Buck, George Henry, A.B	Harrison
Hammond, Walter Jean, A.B	Howland
Lente, Harry Hallock	Franklin, Mass.
Merrill, Clyde Harold	Auburn
Pratt, Harold Sewall, A.B.	Farmington
Rosen, WilliamNew	Bedford, Mass.
Scamman, Clarence Linwood	Hartland
Stanley, Oramel Henry, A.B	Fryeburg

SECOND YEAR.

Name	Residence
Arey, Harold Carleton, A.B	Camden
Bridge, Ezra Ralph, A.B	Brunswick
Coombs, Wyvern Almon	Vinalhaven
Gould, Carlisle Royal	Somersworth, N. H.
Hendee, Walter Whitman	Augusta
Hanscom, Ridgley Fernald	
Lippincott, Leon Stanley, A.B	
McNeil, Henry Daniel	
Moulton, Albert Willis, A.B	Portland
Paine, Edward Warren	
Roberts, Edward Russell	
Ross, Harold Danforth	
Scribner, Herbert Charles	Bangor
Sullivan, Philip Sheridan	
Trickey, Winfield Benjamin	
Walker, Francis David	
Woodman, Samuel Lee	Winthrop

FIRST YEAR.

Name	Residence
Bickmore, Harold Vincent, A.B	Augusta
Buck, William Edgar	
Cartland, John Everett, A.B	
Collins, Frank LaForest,	Brunswick
Echols, Francis Sherman	
Falkingham, Ralph James	
Fogg, Charles Eugene	
Goddard, Claude Albert	
Gordon, Isaac Louis	Lincoln
Gray, Carl Dinsmore	
Johnson, Alfred Wellington	Augusta
Johnson, George Harold	Augusta
Johnson, John Loring, A.B	
Mikelsky, Benjamin Myer	Bath
Mikelsky, Louis Lee, A.B	Brunswick
Miller, Hudson Russell	
Moulton, John Henry, A.B	Limington
Nutter, Ralph Walker	
Perkins, Roy Stanley	
Peters, Clinton Noyes, A.B	Woodfords

Students

Name	Residence
Regan, Edward Francis	*
Robinson, Harrison Leonard, A.B	
Skillin, Waldo Thompson, A.B	
Weeks, DeForest, A.B	Cornish
Williams, James Albert, A.B	Topsham
SUMMARY.	
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THIRD YEAR	
SECOND YEAR	17
FIRST YEAR	25
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Announcement.

The Medical School of Maine, established by the first Legislature of the State, was by its charter placed under the control of the Boards of Trustees and Overseers of Bowdoin College, of which institution it is the Medical Department.

Its course of instruction covers four years of thirty-six weeks each. The studies are distributed through the curriculum according to the following schedule:

FIRST YEAR: Anatomy, Embryology, Histology, Physiology, Chemistry, Personal Hygiene.

SECOND YEAR: Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

THIRD YEAR: Medicine, Surgery, Materia Medica, Pharmacology and Therapeutics, Public Hygiene, Diseases of Women, Obstetrics, Diseases of the Skin, Eye, Ear, Nose, Throat and Genito-Urinary System.

FOURTH YEAR: Medicine, Surgery, Orthopedic Surgery, Materia Medica, Pharmacology and Therapeutics, Medical Jurisprudence, Medical Ethics, Diseases of Women, Diseases of Children, Neurology and Mental Diseases, with clinical instruction in Diseases of the Skin, the Genito-Urinary System, the Eye, the Ear, the Nose and the Throat.

The students of the first and second years are instructed at Brunswick, where the school has been situated since its foundation in 1820, and where the Scientific Departments of Bowdoin College afford facilities for teaching the primary branches. The third and fourth year classes are taught in Portland on account of the clinical advantages afforded in that city. A building designed for the use of the school is located on Chadwick Street,

General Statement

near the Maine General Hospital, in which institution nearly all the teachers in the school are medical or surgical officers, and the Directors of which are in full sympathy with the purposes of the Faculty.*

While the Maine General Hospital (a view of which is given on the last page of the book) is the largest single source of supply of clinical material for the school, Portland has a number of institutions, such as the Maine Eye and Ear Infirmary, the Children's Hospital, the City Home, the Marine Hospital, the Portland Tuberculosis Class, the Female Orphan Asylum, the St. Elizabeth's Orphan Asylum, the Holy Innocents' Home, and the Maine School for the Deaf, which will continue to contribute to bedside instruction of the students. During the coming year the Portland Charitable Dispensary, which is controlled by this school, will probably occupy a new and commodious building designed especially with a view to the clinical needs of medical education.

The expenses of maintenance of this school are defrayed in greater part by the income from invested funds. A large number of students is neither expected nor desired. Modern methods in medical education demand individual instruction. The Boards of Bowdoin College and the teachers in the Medical School of Maine believe that the record of long and honorable service, which the school has secured, can be maintained best, if the number of students is small, and the standard of teaching is high.

The ninety-second annual course will begin on Thursday, the 19th of October, 1911, and will continue thirty-six weeks.

Examinations for admission to the school will be held at nine o'clock on the morning of the first day, Thursday, the 19th of October, in Brunswick.

^{*}Street-cars (Spring Street line—blue) run on Vaughan Street, which is but one block from the School; and free transfers may be had from the Congress Street line (green) and the Middle Street line (red), so that one can easily reach the School from either end of the city, and from the Union and Grand Trunk railway stations.

Final examinations for each class will be held in the period from the 12th to the 26th of June, 1912, inclusive.

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick on Friday, the 20th of October. Examinations in anatomy at eight o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year will be held in Portland on Saturday, October 21st. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 20th and 21st, at hours to be hereafter appointed.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Dean.

A student who fails to pass any branch at the required examination in June, may present himself for re-examination at the beginning of the next course. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he had previously failed to pass.

No student will be admitted to the privilege of conditions if he has failed in more than two departments.

Expenses

Every student who fails to maintain a satisfactory standard of work, will be warned of his deficiency from time to time, before the end of the term.

An examination which is not complete receives no consideration.

The systematic course of instruction will begin on Monday morning, the 23rd of October.

On arriving in Brunswick students should apply to the Deputy Dean, Dr. F N. Whittier, enter their names, receive directions concerning their examinations, if any are needed, pay their fees, and be advised as to boarding places.

In Portland they should apply at the office in the medical building for the same purpose.

EXPENSES.

FOR INSTRUCTION: In each of the required four years \$100. This shall be paid promptly one-half at the opening of the course and the balance at the beginning of the second half of the course.

FOR EXAMINATIONS: Payable at the close of the term of instruction,

In Anatomy\$5.00	0
In Physiology 5.0	0
In Chemistry5.0	
In Bacteriology and Pathology5.0	
In Obstetrics	

These five fees are credited on the diploma or graduation fee.

For every re-examination in any of the departments in any year, \$3.00. This fee is not credited on the diploma fee.

For examination or re-examination in any branch, at a time not regularly appointed, a fee of \$5.00 must be paid in addition to the prescribed fee for that examination.

MISCELLANEOUS: The Matriculation fee of \$5.00 is required of every student each year.

For materials used in the chemical laboratory courses, \$3.00 for first course, \$2.00 for second course, payable in advance.

For materials used in the physiological laboratory, \$2.00 for first course, \$1.00 for second course, payable in advance.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, \$25. This will have been paid in the examination fees of the previous years.

Furnished rooms can be obtained at a rental of from \$1.50 to \$2.50 per week according to the conveniences. A sharing of the above expenses by two students evidently brings the cost within reasonable limits.

The price of board is from \$3.00 to \$4.00 a week.

The cost of living in Portland has been found to be not necessarily in excess of that at Brunswick.

\$15 to \$25 a year covers the cost of books.

Graduates of other schools, who have been engaged three years in the regular practice of medicine, may receive a general ticket upon presentation of their diplomas and payment of the matriculation fee. Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

REQUIREMENTS FOR ADMISSION

Requirements for admission to the first year are those of the Association of American Medical Colleges, with the addition that one year of Chemistry is specifically required.

Section r. (a) A bachelor's degree from an approved college or university, or (b) or (c).

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary, and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign languages,

Requirements for Admission

of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches: A. Required (18 points); Mathematics (4 points); English (4 points); history (2 points); language (4 points—2 must be Latin); science (taken from physics, chemistry, botany, zoölogy, 4 points).

B. Optional (to 12 points); English (2 points); history (6 points); language (6 points), manual training (2 points); mechanical drawing (1 point); natural science (botany, zoölogy, 2 points); physical science (chemistry, physics, 2 points); trigonometry (1 point); astronomy (1); civics (1); geology (1); physical geography (1); physiology and hygiene (1); political economy (1).

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks).

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned, or by any state board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

Section 2. This examination will be conducted by the Superintendent of Schools of Brunswick and Topsham, John Albert Cone, A.B. It will be recognized that the appointment of the examiner is in accordance with the requirements of the Association of American Medical Colleges.

Section 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

Students from other schools who apply for advanced standing must comply with the requirements for admission to the first year, must give satisfactory evidence that they have completed

a course or courses of instruction, equivalent in kind and amount to that or those in this school preceding that to which admission is sought, and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates of the passage of examinations in other schools are not accepted in lieu of examinations.

Students in the Senior Class of the Academic department are permitted to take the studies of the first year in the Medical department and thus are eligible for the first year final Medical examinations.

It is desired that a literal interpretation shall be placed upon the stated requirement of the candidates for matriculation, as hitherto there have been not infrequent examples of those who inquire if other conditions than those named will not serve in lieu of the examination.

The Board of Trustees and Overseers of Bowdoin College by recommendation of the Faculty have voted that in and after 1912 one year of study in a reputable college will be required for admission to the Medical department, in which time particular attention shall be bestowed upon physics, chemistry, biology, and either French or German. It is advised that students take two years of college work along the same lines.

GRADUATION.

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular incorporated medical institution, and the last course previous to examinations must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass a satisfactory examination in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean at least ten days before the beginning of the final examinations.

Methods of Instruction

Time spent in pharmacy, dental and veterinary institutions and in preparatory schools does not entitle a student to examinations for advanced standing.

METHODS OF INSTRUCTION.

ANATOMY.

PPOFESSOR TOBIE, ASSISTANT PROFESSOR DYSON, AND DOCTORS ELLIOTT, THOMPSON, DRUMMOND, HOLT, CRAGIN, AND MR. KING.

The course in this branch extends over two years and covers every portion of human anatomy with special reference to its application in the practice of medicine and surgery. The scope is so extensive as to require a number of instructors and a division of the work; but an attempt is made to harmonize the various divisions and enable students to spend their time to the best possible advantage. In the class room every part of human anatomy is taken up by systems as arranged in Gerrish's Text-Book. Some subjects are treated by lectures and many by demonstrations, but the greater part of the work consists of recitations and demonstration quizzes.

First year students study embryology, histology, osteology, arthrology, myology, and visceral anatomy, including the study of the cerebro-spinal axis and organs of the special senses. Second year work includes myology, the remainder of systematic anatomy and relational anatomy. The class-room work is made valuable by the exhibition and demonstration of dissected parts, models and casts, and from time to time students are required to present drawings of different organs. Considerable attention is also paid to surface anatomy, which is studied on the living model. The total number of hours devoted to class-room work in gross anatomy in two years' time is one hundred and seventy-four, including thirty hours of osteology.

During the first half of the first year the different tissues and organs are studied microscopically in the histological laboratory

and reproduced by free hand drawing. One hundred and thirty-five hours are devoted to histology, thirty being didactic in character, the remainder laboratory work. Embryology is studied during the second half of the first year. Forty-five hours are devoted to laboratory work; thirty hours to lectures, recitations and quizzes.

First year students devote one hundred and thirty-five hours to practical anatomy and dissect at least one part of the cadaver. Second year students dissect in the second half term and spend two hundred and seventy hours in the anatomical laboratory. For this purpose a period of six weeks is reserved, during which they devote their entire time to practical anatomy and are required to dissect and demonstrate at least a complete lateral half of the human body. The supply of dissecting material is adequate and the methods and facilities for preparing and preserving it are modern and of the best.

The Anatomical Museum contains a large number of dry preparations, specimens, casts and models, including Auzoux's complete model of a man, the gift of Hon. John Fremont Hill, Ex-Governor of the State of Maine and an alumnus of 1877. The museum is rich in osteological material and disarticulated skeletons are loaned to the students of the first year, remaining in their possession until the end of the term.

At the end of each year, students are required to pass a written and an oral examination. Practical examinations in the identification of gross and microscopic structures are held in the laboratories.

PHYSIOLOGY.

PROFESSOR SMITH AND DOCTOR BOLSTER.

Instruction in this department is conducted with reference to the practical application of the facts of human physiology to the needs of the student, in his study of the diagnosis and treatment of disease. Class-room demonstrations and experimental laboratory teaching are employed, so far as they can be made to serve this purpose.

Methods of Instruction

The instruction will be given by practical laboratory work, text-book recitation and supplementary lectures.

The laboratory is fully equipped with the Harvard apparatus.

The work of the first year will be devoted to study by recitation, and by practical laboratory exercises, extending over half the term, of the functions of Nutrition. Special attention will be given to the physiology of nerve and muscle, of the Blood, including its microscopical study, Digestion and the phenomena and physics of the Circulation and Respiration. Students will be taught to demonstrate for themselves the essential facts connected with these functions.

Written reviews will be held from time to time besides regular quizzes upon both the didactic and laboratory work.

The work of the second year will be devoted to the study of Reproduction, the Nervous System, the Special Senses and the physiology of Voice and Speech.

The department is well equipped with charts, models and apparatus for demonstration and experimental work, admirably adapted to aid in giving students a thoroughly practical course in Physiology. There will be not less than seventy-five hours devoted to experimental and demonstration work in laboratories.

A laboratory fee of \$2.00 will be charged, to defray cost of material, which must be paid in advance at the Dean's office before beginning the laboratory course. Students will furnish at their own cost necessary instruments for nerve-muscle dissection and will be charged extra with the cost of any injury to apparatus.

CHEMISTRY.

PROFESSOR CRAM AND DOCTOR LOOMIS.

The chemical courses extend over the first two years. They consist of lectures and laboratory work occupying from five to nine hours per week for each class. As a knowledge of general inorganic chemistry is required for admission, first year men

begin with the application of general chemistry to the qualitative analysis of simple substances. The work is mainly in the laboratory, the book used being Tower's "Qualitative Chemical Analysis." The aim of the course is not so much to train analysts as to impart familiarity with chemical substances and principles.

The work in qualitative analysis is followed by the principles and practice of quantitative analysis, especially volumetric. Particular attention is paid to the preparation of solutions of definite strength and to the computation of results. The analytical courses take the first half year.

The second half year with the first year men is given to general organic chemistry. Attention is given to the important classes into which organic compounds are divided and to properties and reactions common to the whole class, rather than to specific compounds and special reactions. The compounds chosen to illustrate each class are as far as possible those of importance to the physician. The course is given mainly by lectures with some laboratory work in the preparation of certain organic compounds. The book used is Moore's "Outlines of Organic Chemistry."

The second year men begin with physiological chemistry using Hawk's "Practical Physiological Chemistry." The work is mainly in the laboratory, supplemented by assigned readings and quizzes. This is followed by urinary analysis, the analysis of foods, detection of poisons, and the analysis of drugs and medicines.

First year men who have had satisfactory courses in analytical chemistry and organic chemistry, take the regular work in physiological chemistry with the second year men their first year. In their second year such men will be given an opportunity to do advanced individual work in the newer methods of urinary analysis and in research.

The aim is to make the chemical courses as practical as possible. To this end the student is taught how to construct ap-

Methods of Instruction

paratus and prepare reagents as well as use them. Particular attention is given also to the literature so that a man may become familiar with the standard works of reference in each department. For this the equipment of the Searles Science Building is fully adequate.

Each student is required to pay in advance at the Dean's office a laboratory fee, covering the average cost of chemicals, gas, and water. This is \$3.00 for the first year men and \$2.00 for the second. In addition each will pay for apparatus broken or not returned at the end of the term.

OBSTETRICS.

Professor McDonough and Doctors Small, Hatch, Moore and Everett.

Till this year, a serious proposition was the providing of systematic clinical instruction. While for the last two years clinics were held at the Maine General Hospital, the Eve and Ear Infirmary and the City Hospital, and the City Physician placed at the disposal of the students cases which came under his care, still there was no guarantee of any definite number. Even with this disadvantage students had opportunity of seeing at least five cases. This year the Board of Managers of the Temporary Home, the one lying-in hospital in the city, has granted the school the privilege of all cases occurring in this institution. Dr. Cousins at his hospital, has placed at our disposal one bed in his obstetrical ward, for patients to be used for clinical instruction. At the new dispensary about to be built, an outpatient department will be established. From these sources it is expected to obtain a sufficient number of clinical cases to furnish the needed bedside teaching.

PATHOLOGY, BACTERIOLOGY AND HYGIENE.

Professor Whittier and Doctors Weeks, Fuller and Stevens.

1. Hygiene. Lectures and laboratory work. Second half-

year: Thursday, 1.30 to 4.30; Saturday, 1.30 to 3.30, except six weeks following the Easter recess.

This course is given to first-year students and occupies five hours a week for nine weeks. Eighteen of the hours are didactic and twenty-seven are laboratory hours. Lectures are given on personal hygiene and include such subjects as exercise, ventilation, sources of food and water supply, first aid in emergency cases, effects of alcohol, and sex hygiene. The course is also designed to give an introduction to Bacteriology and includes introductory lectures on that subject. The laboratory work includes simpler bacteriological technic, microscopical examination of foods, practical experiments in disinfection and routine examinations of water and milk.

2. Bacteriology. Lectures and laboratory work. First half-year until Christmas recess: Monday, Tuesday, Wednesday, and Friday, 1.30 to 5.30.

This course is given to second-year students and occupies sixteen hours a week for nine weeks. Forty of the hours are didactic and one hundred and four are laboratory hours. Students are required to prepare most of the media and solutions used in this course. Each student is required to cultivate upon media twelve varieties of pathogenic bacteria and to study their characteristics. Animal inoculations and autopsies are performed by the students. Special attention is given to laboratory diagnosis of tuberculosis, diphtheria and typhoid fever.

3. General Pathology, including Pathological Histology, also Pathology of the Blood. From Christmas recess to the end of the year excepting the first six weeks following the Easter recess: Monday, Tuesday, Wednesday and Friday, 1.30 to 5.30.

This course is given to second-year students and occupies sixteen hours a week for fifteen weeks. Sixty of the hours are didactic and devoted to quizzes and lectures and one hundred and eighty are laboratory hours. McFarland's text-book is used as a basis for this course. The text-book is supplemented

Methods of Instruction

by lectures on special subjects. As far as possible the consideration of a subject in the class-room is followed by a study of the same subject in the laboratory. Much time is given before the Easter recess to diagnosis work upon the microscopical preparations. The last two weeks of the course are devoted largely to the study of pathology of the blood and the technic of blood examinations. Students are trained in counting red and white corpuscles, in estimating amount of hemoglobin, in preparation and examination of stained specimens.

4. Clinical Pathology. A course for third-year students. Practical work by assignment in the Portland hospitals and in the school laboratory. Also scheduled work in the school laboratory from the Easter recess to the end of the year: Tuesday, 2 to 5 and Wednesday, 2 to 4. This work occupies five hours a week for nine weeks. Fifteen of the hours are didactic and thirty are laboratory hours. The course in Clinical Pathology occupies at least eighty hours. Of these only forty-five are scheduled.

Arrangements have been made with the Maine General Hospital, Maine Eye and Ear Infirmary and Portland Charitable Dispensary for third-year students to do pathological work in these institutions. Regular assignments are made and reports of work done required. By arrangement with the physicians in charge special attention is given to the clinical side of this work.

Instruction is given as opportunity occurs at surgical clinics and autopsies. In the work at the Medical School building each student examines microscopically tissues and other pathological material obtained at the Maine General Hospital, Maine Eye and Ear Infirmary, Children's Hospital and Portland Charitable Dispensary. Whenever possible students are required to obtain material from the patients.

Students receive special training in the technic of preparing bacterial vaccines, also in performing the Wassermann test for syphilis.

MEDICINE.

Doctors Thayer, Keating, Weeks, Burrage, Gehring, Files and Welch.

Instruction in internal medicine is given throughout the third and fourth years.

In the third year special stress is put upon physical examinations. Each student is trained individually and repeatedly in methods of inspection, palpation, percussion and auscultation; he is taught a practical technique for examining blood, stomach contents, faeces, urine and sputum; he is shown how to make succinct case-histories; and his knowledge of text-books on Medical Diagnosis and Practice of Medicine is tested and clarified by systematic quizzes.

In the fourth year, each student is taught to sift his facts; to correlate the subjective symptoms related by the patient with his own objective findings after examination. Case-histories are reported to the class and discussed by students and by instructors, and are made a basis for training in the arts of diagnosis, prognosis and treatment.

SURGERY.

Doctors King, Brock, Twitchell, Gilson, Haskell, Haney and Drummond.

The instruction in surgery is given by lectures, recitations, demonstrations, clinics, diagnosis exercises on the patient, and operations on the cadaver. It extends throughout the third and fourth years of the course, and in the highest possible degree is practical in character.

In the didactic course the recitation method is employed for the most part, as being particularly helpful to the students, necessitating careful preparation of each lesson, allowing no essential point to be slighted, and stimulating pride by the certainty of each that his work will be compared with that of his fellows. But the lecture method is used whenever it seems ser-

Methods of Instruction

viceable, as in the introduction of new topics, the presentation of the salient features of unfamiliar subjects, and the explanation or amplification of matters not adequately treated in the text-book.

The students perform a large variety of operations upon the cadaver, under the immediate direction and supervision of the teacher. The application of bandages and other dressings is taught in the most practical manner.

The principal clinical teaching is given at the Maine General Hospital by the six visiting surgeons, all of whom are professors, assistant professors, or clinical instructors in the School. in each week some of these teachers hold exercises in diagnosis, in which the students are instructed in proper methods, and privileged to make personal examination of cases. Sections of the class are taken in turn through the wards, and are given opportunities for the observation of the after-treatment and progress of patients upon whom they have seen operations performed. A system of notification by telephone enables the students to obtain prompt information of accident cases, which are brought into the Hospital. The amount of clinical material at this institution far exceeds the capacity of the classes to appropriate it without neglecting other and essential studies. surgeons of the Portland Charitable Dispensary permit sections of the class to observe cases at their daily service—a privilege highly valued and constantly accepted, as the kind of diseases is largely different from those usually seen at the Hospital. City Hospital also occasionally presents interesting and useful material

MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.

PROFESSOR HUNT AND DOCTOR DERRY.

Instruction in this department is as follows:

In the first half of the third year, there is a recitation course in Pharmacology. This gives the student a general idea of the action of the more important drugs. During the first half of

this year a laboratory course of sixty hours is given. In this, is taken up Botany, Plant Chemistry, the manufacture of pharmaceutical preparations and the study of incompatibles.

The last three-fourths of the laboratory course will be devoted to experimental pharmaco-dynamics. The students will perform experiments, either individually or in groups, upon living animals. These experiments will give the student a first-hand knowledge of the action of the important drugs.

In the second half of the third year, the more systematic study of drugs will be begun. The instruction will be by lectures and quizzes and will include a description of the doses and preparations of drugs, their action in health and disease, their incompatibilities and the uses which are made of them in the treatment of disease. Early in this course will be given instruction in Prescription Writing and there will be constant drill on this difficult subject till the end of the fourth year.

In the first half of the fourth year this course will be continued. The last half of the year will be devoted to Therapeutics or the treatment of diseases. This will be largely a text book course with occasional lectures.

The total number of hours of instruction in this department is 240.

MEDICAL JURISPRUDENCE.

PROFESSOR EMERY.

The instruction in Medical Jurisprudence in a course of 15 lectures followed by an examination will be directed mainly to an exposition of the legal duties and responsibilities of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

GYNECOLOGY.

Professor Thompson and Doctor Willis Bean Moulton.

The course in Diseases of Women will continue through the

Methods of Instruction

third and fourth years. Third-year students will have work mainly didactic in character.

Dr. Moulton will in the fourth year conduct a course in the Pathology of Diseases of Women.

There will be also weekly clinics for fourth year students, at which the examination of female patients will be an important feature.

DISEASES OF CHILDREN.

LECTURER WEBSTER.

Instruction will be given, as heretofore, by recitations, lectures, clinical demonstrations, and study of cases by individual students with reports and discussions by members of the class. During the past year, clinical opportunities have been furnished by the Children's Hospital, the Female Orphan Asylum, the St. Elizabeth's Orphan Asylum, the Holy Innocents' Home, the Portland Charitable Dispensary, the Maine General Hospital, the Maine Eye and Ear Infirmary, the Maine School for the Deaf, and by the City Physician of Portland and by other practitioners, from their private practice.

OPHTHALMOLOGY AND OTOLOGY.

PROFESSOR WILLIS BRYANT MOULTON AND DOCTOR MORAN.

The instruction in these departments will be given by lectures and clinics. A weekly clinic will be held at the Hospital. The various diseases will be described as cases illustrating them are available for demonstration; operations will be performed when required; and other treatment applied as may be necessary.

Daily clinics are also held at the Portland Charitable Dispensary and the Maine Eye and Ear Infirmary, to which the students are assigned in small sections.

PUBLIC HYGIENE.

Instruction is given by a member of the State Board of Health, who lectures upon the principles of Public Sanitation,

considering the source and character of public water supplies and the collection and disposal of waste, with special reference to preventable diseases.

Several hours are devoted to sanitary legislation and the relations and obligations of the practicing physician to public and health boards, in the management of infectious diseases.

NEUROLOGY AND MENTAL DISEASES.

PROFESSOR WITHERLE.

Instruction in Neurology and Mental Diseases will be given to the fourth-year class each week throughout the course by lectures, clinics and quizzes, three hours of each week being devoted to such instruction.

GENITO-URINARY SURGERY.

LECTURER ALFRED MITCHELL, JR.

Instruction in Genito-Urinary Surgery will be given to the third-year class each week during the course both by lectures and clinically.

DERMATOLOGY.

LECTURER PUDOR.

Instruction in Dermatology will be given to the third-year class each week during the entire course didactically and clinically.

ORTHOPEDIC SURGERY.

LECTURER ABBOTT AND DOCTORS PINGREE AND LAMB.

Clinics in Orthopedic Surgery will be held at the Maine General Hospital and the Children's Hospital throughout the fourth year.

DISEASES OF THE NOSE AND THROAT.

LECTURER DAVIS.

The third-year class will receive special instruction, both didactic and clinical in Diseases of the Nose and Throat, weekly, throughout the course, and clinical instruction will continue throughout the fourth year.

Schedule for First Year

,	Monday	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY (Didactic)		*8.15—9.15 *9.30—10.30 †9.30—10.30		†8.15—9.15 †9.30—10.30	†8.15—9.15 †9.30—10.30 †9.30—10.30	
CHEMISTRY	2.30—5.30		*I.30—4.30 †2.30—5 30		*1.30-4.30	
PHYSIOLOGY			8.30—10.30			*8.30—10.30 ‡8.30—11.30
HISTOLOGY (Laboratory)	*8.15—10.30 *1.30—4.30	*1.30—4.30		*1.30-4.30		*1.30—4.30
April 9—May 22 ANATOMY (Dissecting)		8—11.30	1.30—4.30	8—11.30 1.30—4.30	8—11.30	1.30—4.30
OSTEOLOGY				*8.15—9.15 *9.30—10.30		
EMBRYOLOGY	‡8.15—9.15 ‡9.30—10.30 Didactic	‡8.15—9.15 ‡9.30—10.30 Laboratory				
HYGIENE AND DIETETICS				†1.30–4.30		†1.303.30
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SCHEDULE FOR THE FIRST YEAR

Second half year. Second half year, excepting from April 9 to May 22. * First half year, †

SCHEDULE FOR THE SECOND YEAR

	Monday	TUESDAY	TUESDAY WEDNESDAY THURSDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY (Didactic)		*8.15—9.15 *9.30—10.30			†8.15—9.15	
CHEMISTRY				†10—12 †2—4		
PHYSIOLOGY (Didactic)	Jan. and Feb 8.15—9.15 9.30—10.30		†8 15—9.15 †9.30—10 30			†8.15—9.15 †9.30—10.30
PATHOLOGY AND BACTERIOLOGY	11.30—5.30	11.30—5.30 11.30—5.30 11.30—5.30	†1.30—5.30	-	†1.30—5.30	
April 9—May 22 ANATOMY (Dissecting)	8—11.30 1.30—5.30 8—11.30 1.30—5.30	8—11 30	8—11.30 I.30—5.30	8—11.30	8—11.30 1.30—5.30	8-11 30

* First half year. † Except from April 9 to May 22.

Schedule for Third Year

All exercises are held in the School Building on Chadwick Street, unless otherwise specified. SCHEDULE FOR THIRD YEAR-FIRST HALF.

MOND	Monday	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	Surgery	Materia Medica	Surgery	Medicine	Surgery	Surgery
Mate	9—10 Materia Medica	Obstetrics	Gynecology	Eye and Ear Clinic Me. Gen. Hosp.	Medicine	Gynecology
0	Obstetrics	Medical Clinic Me. Gen. Hosp. Amphitheatre	Diseases of Eye and Ear	Surgical Clinic Me. Gen. Hosp. Amphitheatre	Obstetrics	Medicine
T da	Dispensary Sections Phys. Exams.	Dispensary Sections Phys. Exams.	Dispensary Sections Phys. Exams.	Dispensary Sections Phys. Exams.	Dispensary Sections Phys. Exams.	Dispensary Sections Phys. Exams.
Cii	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections
		Public Hygiene				
Mai	eria Medica	4-5 Materia Medica Public Hygiene Greeley Hospital	Phys. Diagnosis Greeley Hospital	Materia Medica	Skin Diseases	
Ma	5-6 Materia Medica		Phys. Diagnosis Greeley Hospital	Genito Urinary Phys. Diagnosis Materia Medica Surgery Greeley Hospital	Diseases of Nose and Throat	

All exercises are held in the School Building on Chadwick Street, unless otherwise specified. SCHEDULE FOR THE THIRD YEAR—SECOND HALF. THURSDAY WEDNESDAY TUESDAY Monday

Surgery	Gynecology	Medicine	Dispensary Clinic Sections	Dispensary Sections Phys. Exams.				
Surgery	Medicine	Obstetrics	Dispensary Clinic Sections C	Dispensary Sections Phys. Exams.			Skin Diseases	Diseases of Nose and Throat
Medicine	Eye and Ear Clinic Me. Gen. Hosp.	Surgery Amphitheatre	Dispensary Clinic Sections	Dispensary Sections Phys. Exams.			Materia Medica	Genito Urinary Phys. Diagnosis Materia Medica Diseases of Surgery Greeley Hospital
Surgery	Gynecology	Diseases of Eye and Ear	Dispensary Clinic Sections	Dispensary Sections Phys. Exams.	Clin. Pathology	Clin, Pathology	Phys. Diagnosis Greeley Hospital	Phys. Diagnosis Greeley Hospital
Materia Medica	Ostetrics	Medicine Amphitheatre	Dispensary Clinic Sections	Dispensary Sections Phys. Exams.	Clin. Pathology	Clin. Pathology	Clin. Pathology	Genito Urinary Surgery
Surgery	9—10 Materia Medica	Obstetrics	Dispensary Clinic Sections	Dispensary Sections Phys. Exams.			4-5 Materia Medica Clin. Pathology Greeley Hospital	5—6 Materia Medica
6—8	9—Io	10—11	11—12	12—1	2-3	3-4	4—5	5—6

Schedule for Fourth Year

All exercises are held in the School Building on Chadwick St., unless otherwise specified. SCHEDULE FOR THE FOURTH YEAR

SATURDAY	Clinics throughout	the day by special announcement	Medicine, Surgery,	Nervous and Mental	Genito- Urinary	Surgery, Diseases of the Skin.		
FRIDAY	Nose and Throat.	Orthopedics Children's Hosp	Surgery Pediatrics Amphitheatre Children's Hosp	Pediatrics Children's Hosp	Medicine Children's Hosp	M G Hosp Clinic SectionMedicine Surg. Children's Hosp. Section Pediatrics	M G Hosp Clinic SectionMedicine Surg, Children's HospitalSection Pediatrics	Diseases of Nose and Throat
THURSDAY	of Eye and Ear,	Eye and Ear Clinic Me. Gen. Hosp.	Surgery Amphitheatre	Surgery	Surgery	M.G. Hospital Section Medicine Clinic Section Section Medicine Section Medicine Surg. Children's Medicine, Surg. Children's Medicine, Surg. Children's Hospital Section Sec. Orthopedics Pediatrics	M.G.HospClinic M. G. Hospital M.G.Hosp Clinic Section Medicine Clinic Section Section Medicine Surg. Children's Medicine, Surg. Children's Hospital Section Children's Hospital Section Sec. Orthopedics Pediatrics	Surgery
WEDNESDAY	work. Diseases	Medicine	Diseases of Eye and Ear	Pharmacology and Therapeutics	Pharmacology and Therapeutics	M.G. HospClinic M. G. Hospita SectionMedicine Clinic Section Surg. Children's Medicine, Surg Hospital Section Children's Ho Pediatrics	M.G. HospClinic M. G. Hospital Section Medicine Clinic Section Surg Children's Medicine, Surg Hospital Section Children's Hospital Section Sec. Orthopedic	Neurology
TUESDAY	mary. Clinics daily. Section we Medicine and Nervous Diseases	Surgery	Medicine Amphitheatre	Medicine	Medicine		M. G. Hospital Clinic Section Medicine, Surg. Surg. Children's Hosp. Hospital Sec. Orthopedics	Genito-Urinary Surgery
Monday	Infirmary. Clinics daily. Section work. Diseases of Eye and Ear, Nose and Throat. Medicine and Nervous Diseases	Gynecology Clinic	Gynecology Clinic	Pharmacology and Therapeutics	Pharmacology and Therapeutics	M G Hosp Clinic M. G. Hospital Section Medicine Clinic Section Surg, Children's Medicine, Surg Hospital Section Children's Hosp Pediatrics	M. G. Hospital Section Medicine Clinic Section Section Medicine, Surg. Children's Medicine, Surg. Hospital Section Children's Hosp. Hospital Section SectionMedicine Surg. Children's Medicine, Surg. Hospital Section Children's Hosp. Hospital Section Sec. Orthopedics Sec. Orthopedics Fediatrics	Neurology
	8-6	9—10	10-11	11-12	12-1	3—4	4—5	2-6

The total number of hours in the foregoing schedule exceeds the four thousand hours recommended by the Association of American Medical Colleges. These hours are apportioned to lectures, laboratory and clinical work in such a way as to conform to the recommendations of the above-named Association.

THE LIBRARY.

The Library of the Medical School, containing over 5,000 volumes, has been combined with that of the College, which numbers over 93,000 volumes. Both collections are under the same administration and are at the service of the medical students. The more recently published medical works and current numbers of professional journals are kept in a separate place in the main reading room for their especial use. It is not the policy of the school to furnish text books through its library, or to buy largely in medical literature; yet by means of the catalogue of the Library of the Surgeon General's Office and the system of inter-library loans, the Librarian is able to procure for use in serious investigation almost any book that may be desired.

CALENDAR.

1911.

- 19 October—Thursday. Entrance Examinations: for first year students, at nine o'clock, A. M., in Brunswick.
- 20 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year, in Brunswick, in Anatomy, at nine o'clock A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.
- 21 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing for third year, in Portland, in Anatomy at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 20 and 21, at hours to be hereafter appointed.

Thanksgiving Recess from Wednesday, November 29, 1.30 P. M. to Monday, December 4, 8 A. M.

Recess from 4.30 P. M. Wednesday, December 20, to Tuesday, January 2, 8 A. M.

1912.

- 22 February—Thursday, Washington's Birthday. Holiday. No exercises. Recess from noon of Saturday, March 30, to morning of Tuesday, April 9.
- 30 May-Monday, Memorial Day. Holiday. No exercises.
- 12 to 26 June—Examinations. Wednesday to Wednesday of second week.
- 26 June—Wednesday. Commencement.
 Summer vacation of sixteen weeks.

